Assignment -3

Python Programming

Assignment Date	19 September 2022
Student Name	NIRANJAN RAJ M
Student Roll Number	19EC041
Maximum Marks	2 Marks

Question-1:

Write a python program to test a given number is prime or not.

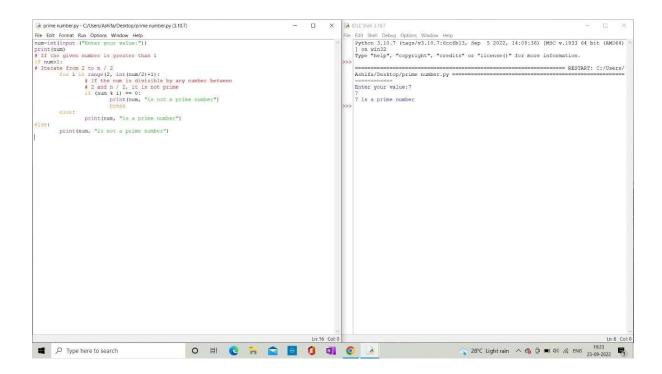
Solution:

Output:

Enter your value: 7

7

7 is a prime number.



Question-2:

Write a program to generate odd numbers from m to n using while loop.

Solution:

```
# Python program to print odd Numbers
```

```
m=int(input("Enter the m value:"))
n=int(input("Enter the n value:"))
```

for num in range(m,n+1):

```
while(num%2!=0):
print(num)
break
```

Output:

Enter the m value:1
Enter the n value:10

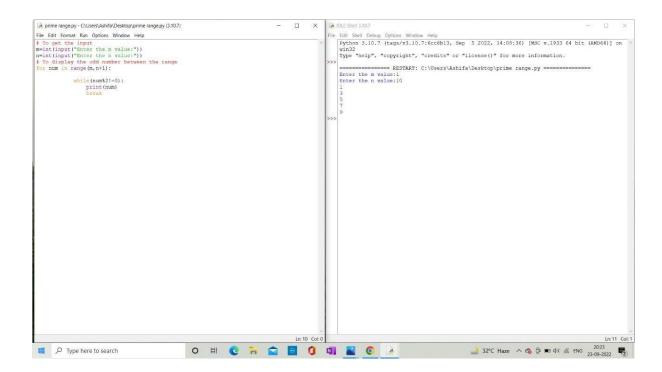
1

3

5

7

9



Question-3:

Write a python program to display prime number series up to given number.

Solution:

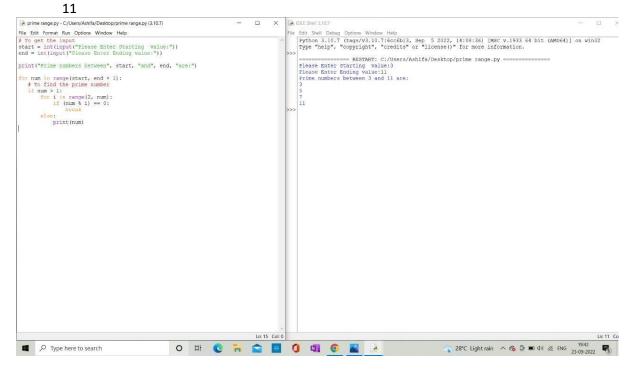
```
# Python program to display all the prime numbers within an interval
```

```
lower = int(input("Please Enter minimum value:"))
upper = int(input("Please Enter maximum value:"))
print("Prime numbers between", lower, "and", upper, "are:")
for num in range(lower, upper + 1):
    # all prime numbers are greater than 1
    if num > 1:
        for i in range(2, num):
            if (num % i) == 0:
                 break
        else:
            print(num)
```

Output:

```
Please Enter Starting Value:3
Please Enter Ending Value:11
Prime number between 3 and 11 are:
3
```

5 7



Question-4:

Write a python program to generate Fibonacci series.

Solution:

Program to display the Fibonacci sequence up to n-th term

```
nterms = int(input("How many terms? "))
# first two terms
n1, n2 = 0, 1
count = 0
# check if the number of terms is valid
if nterms <= 0:
    print("Please enter a positive integer")
# if there is only one term, return n1
elif nterms == 1:
    print("Fibonacci sequence upto",nterms,":")
    print(n1)
# generate fibonacci sequence
else:
    print("Fibonacci sequence:")
    while count < nterms:
        print(n1)</pre>
```

```
nth = n1 + n2
# update values
n1 = n2
n2 = nth
count += 1
```

Output:

Number of inputs:7

Fibonacci series:

0 1 1

2

3

5 8

